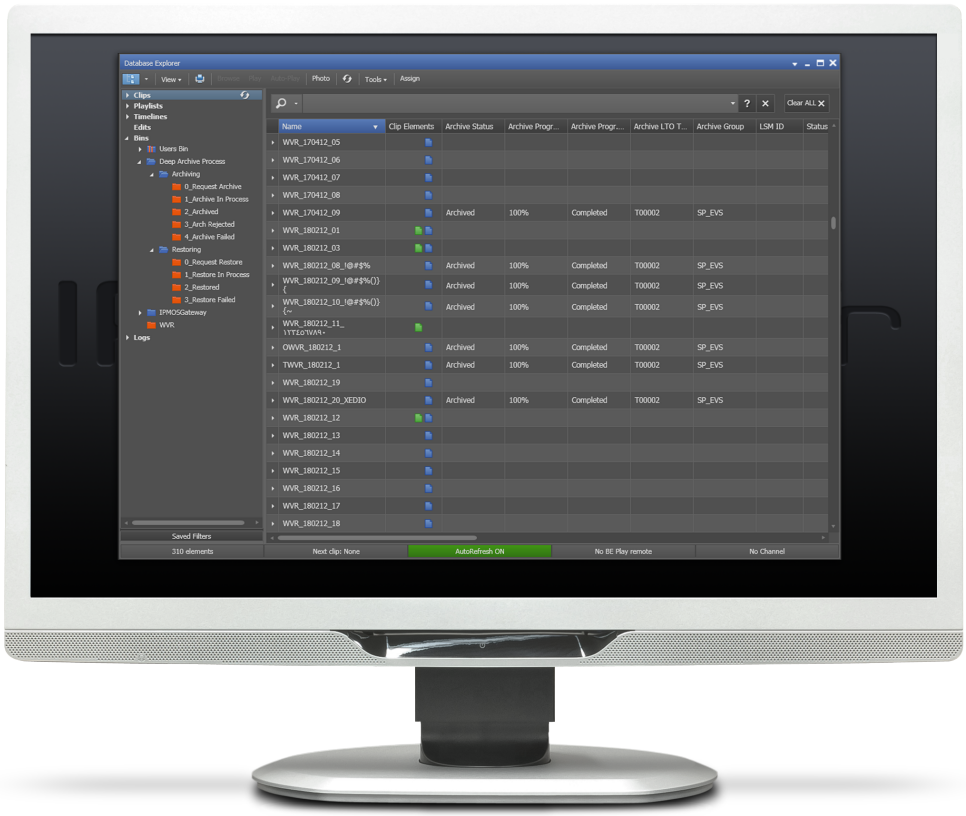
CONFIGURATION MANUAL

DEEP ARCHIVE SYNC CONTROLLER

Version 2.1 - June 2014



IP2Archive

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Regional Contacts

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Table of Contents

TABLE OF CONTENTS ..... **III**

WHAT'S NEW ..... **IV**

1. ABOUT THE APPLICATION **1**

2. STARTING THE APPLICATION **2**

2.1. After Installation 2
2.2. After Configuration 2
2.3. Version and License Check 3
2.4. Main Window Overview 5
2.5. Overview Tasks 7

3. CONFIGURING THE APPLICATION **8**

3.1. Settings Window 8
3.2. System Settings 10
3.2.1. Overview System Settings Subcategories 10
3.2.2. MAD Options Tab 10
3.2.3. Oracle Connection Tab 11
3.2.4. E-Mail Options Tab 13
3.2.5. Timers Tab 15
3.2.6. Tasks Tab 15
3.2.7. Automatic Tape ID Sync Tab 16

What's New

In the Configuration Manual of the Tape Storage Controller the icon NEW ! has been added on the left margin to highlight information on new and updated features.

The changes linked to new features in version 2.1 are listed below.

The version of the application and the validity of the license are checked at startup.

- See section "Version and License Check" on page "3".

The splash screen now also displays the database name and version and the date until which the license is valid.

- See section "Main Window Overview" on page "5".

Support for loresless workflow has been implemented.

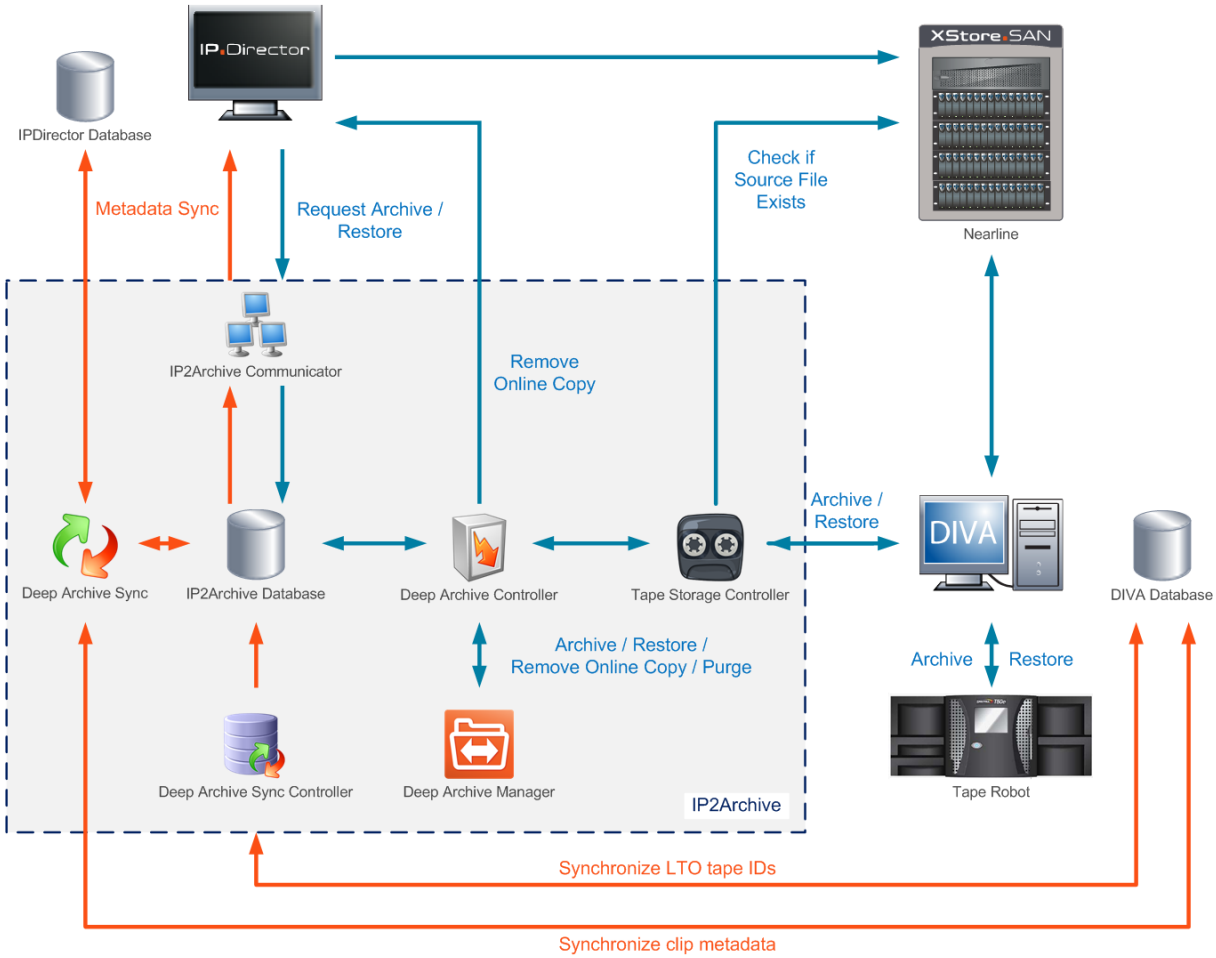
1. About the Application

General Description

Deep Archive Sync Controller is an automated application or robot which will actively poll the DIVArchive database (using the DIVA Application Programming Interface) for clips that have been moved to another LTO tape after a manual or automatic repack operation by DIVA, and it will synchronize the new LTO tape IDs with the IP2Archive database.

Workflow

The diagram below shows the interactions between IPDirector and the various IP2Archive software components, and between the various IP2Archive software components and the HSM system. Deep Archive Sync Controller is only used when IP2Archive interfaces with DIVA.



2. Starting the Application

2.1. After Installation

Double-click the Deep Archive Sync Controller icon to start the application. You can also start the application by double-clicking the executable file (.exe) in the installation folder.

The splash screen appears.

The application logs into the database. Then, the Settings window appears allowing you to configure the application.

See section "Configuring the Application" on page "8".

2.2. After Configuration

Double-click the Deep Archive Sync Controller icon to start the application. You can also start the application by double-clicking the executable file (.exe) in the installation folder.

The splash screen appears. The application logs into the database.

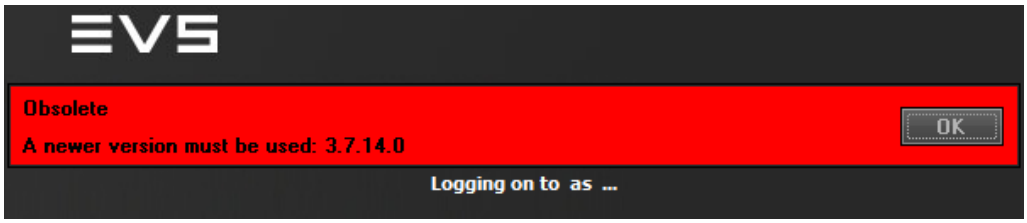
Then, the main window opens. After a time interval defined in the settings, the application automatically starts performing its active tasks.

2.3. Version and License Check

Introduction

NEW !

The version of the application and the validity of the application license will be checked when the application logs into the IP2Archive database at startup. The status of the version or the license that is returned is displayed on the application splash screen.



Version and License Statuses

The following version and license statuses can be returned:

Status	Description	Color	Action Required
Current	The actual version of the application.	no color	No action required. The application starts automatically.
Outdated	A newer version of the application exists, but this version can still be used. The application version that should be installed is displayed.	red	Click **OK** to start the application at once. By default, the application starts automatically after 10 seconds.
Obsolete	A newer version of the application exists and must be used. This version may not be used anymore. The application version that should be installed is displayed.	red	Click **OK** to continue. The application shuts down.
Undefined	The version of the application is not defined in the MAD database.	black	Click **OK** to continue. The application shuts down.

Status	Description	Color	Action Required
Beta	A test version.	blue	Click **OK** to start the application. By default, the application starts automatically after 10 seconds.
License About to Expire	The license period is about to expire. It is shown in how many days the license will expire. Contact your system administrator or check the License Controller manual.	orange	Click **OK** to start the application at once. By default, the application starts automatically after 10 seconds.
License Expired	The license period has expired. The date when the license expired is displayed. Contact your system administrator or check the License Controller manual.	red	Click **OK** to continue. The application shuts down.
No Valid License	There was no valid license found in the database. Contact your system administrator or check the License Controller manual.	red	Click **OK** to continue. The application shuts down.
Maximum Licenses Reached	The maximum number of instances <NUMBER OF LICENSES> for the license has been reached. Contact your system administrator or check the License Controller manual.	red	Click **OK** to continue. The application shuts down.

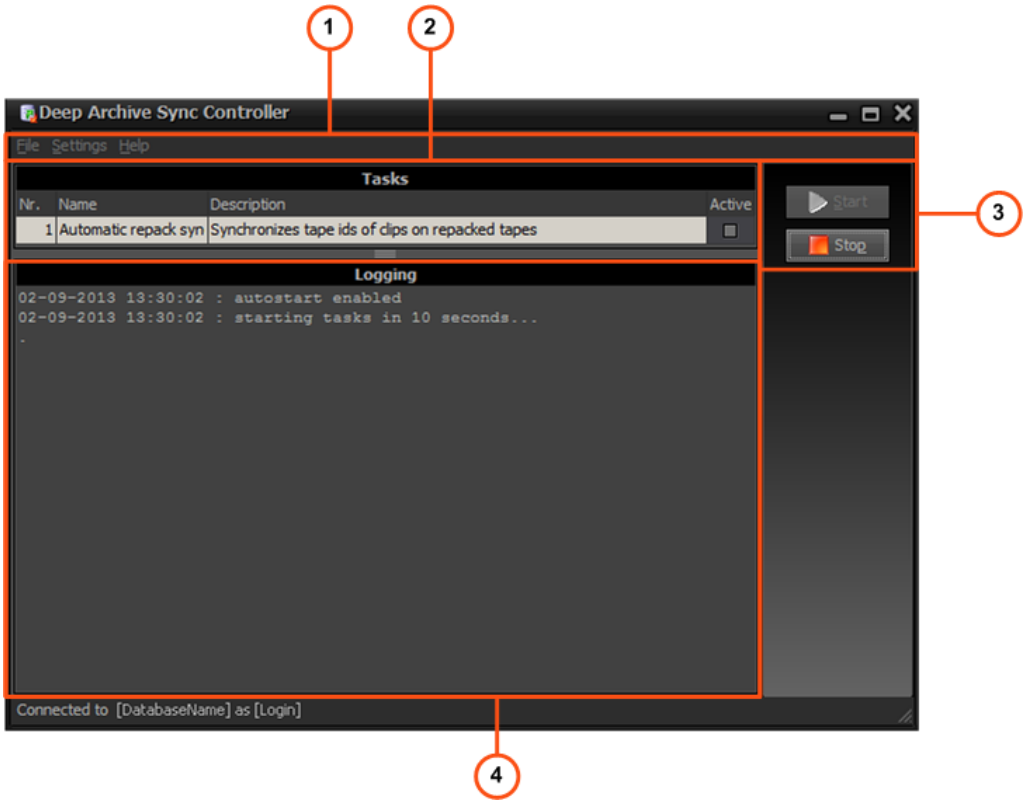
2.4. Main Window Overview

General Description

The main window displays the active and non-active tasks of the application. It allows you to monitor the tasks that are being performed. It also allows you to manually start and stop the application or a particular task.

Illustration

The main window contains the areas highlighted on the screenshot below:



Area Description

The table below describes the various parts of the main window:

Part	Name	Description
1.	Menu bar	The menu bar contains three menus: **File**, **Settings** and **Help**.

Part	Name	Description
2.	Tasks pane	The Tasks pane contains the name and a brief description of the tasks performed by the application. Only the tasks that were activated by you in the System settings will be performed at start-up. If you want to manually run certain tasks for test purposes, you have to stop the application, select the corresponding check box in the **Active** column, and then click the **Start** button. This button only becomes available after you have clicked the **Stop** button.
3.	Start/Stop buttons	These buttons are used to manually start and stop the application.
4.	Log pane	The Log pane lists application events (= logs) and can be useful. The date and time of each event is displayed. These logs are also saved in the log files.

Menu Bar

The menu bar contains three menus: **File**, **Settings** and **Help**.

File Menu

The **File** menu contains only one command: **Exit**. It is used to exit the application. Click the **File** menu or use the keyboard shortcut keys **ALT** + **F** or **F10** + **F** to open it. Click **Exit** or use the keyboard shortcut key **X** to exit the application.

Settings Menu

The **Settings** menu does not contain any commands. It immediately gives access to the application settings. Click the **Settings** menu or use the keyboard shortcut keys **ALT** + **S** or **F10** + **S** to access the settings.

Help Menu

The **Help** menu contains only one command: **About**. Click the **Help** menu or use the keyboard shortcut keys **ALT** + **H** or **F10** + **H** to open it.

NEW !

With the **About** command the application about box can be opened. The about box displays the application software version, the date until which the application license is valid, the name and version of the database the application is logged on to and the login name used.

Click **About** or use the keyboard shortcut key **A** to open the about box.

Note
These menus only become available after you have clicked the **Stop** button.

2.5. Overview Tasks

The table below gives a brief description of the tasks performed by Deep Archive Sync Controller.

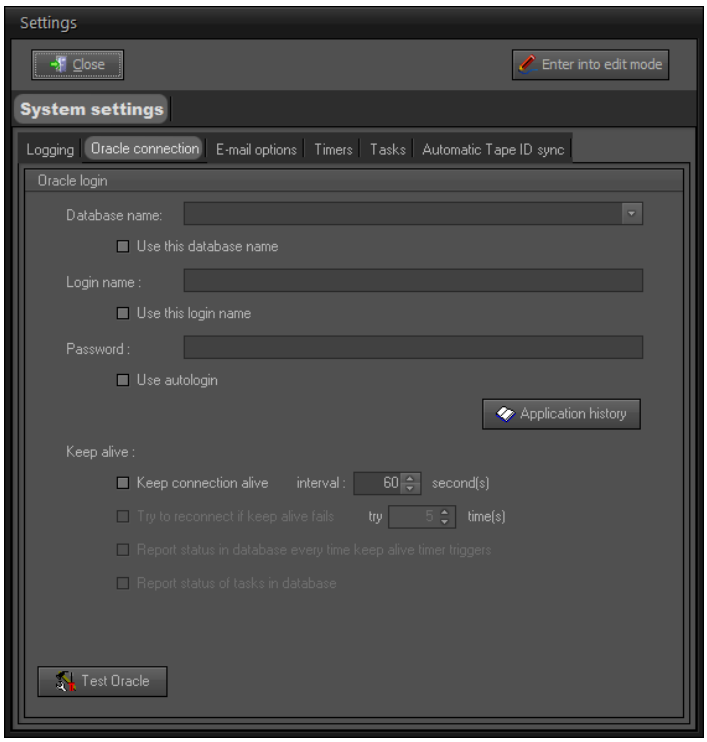
Number	Task	Description
1	Automatic Repack Sync	Polls the DIVArchive database for clips that have been moved to another LTO tape after a repack operation by DIVA and will synchronize the new LTO tape IDs with the IP2Archive database.

3. Configuring the Application

3.1. Settings Window

Opening the Settings Window

The Settings window allows you to configure your application. The first time the application is launched after it has been installed, the Settings window opens automatically.

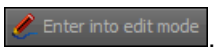


The Settings window can also be accessed through the **Settings** menu in the main window. To make this menu available, click the **Stop** button. The application will stop performing its tasks.

Edit Mode

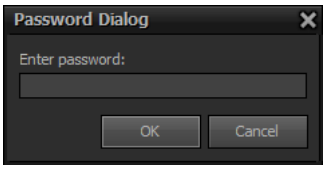
To be able to edit the Global and/or System settings, you first have to enter a password.

To put the Settings window into Edit Mode, proceed as follows:

1. Click the **Enter Into Edit Mode** button 

.

   A dialog box appears.



2. Enter the administrator password and then click **OK**.

   The Settings window enters into Edit Mode.

Note
Certain settings are read-only and cannot be configured. These can only be modified in the Configurator application. Other settings have to be configured locally.

3.2. System Settings

3.2.1. Overview System Settings Subcategories

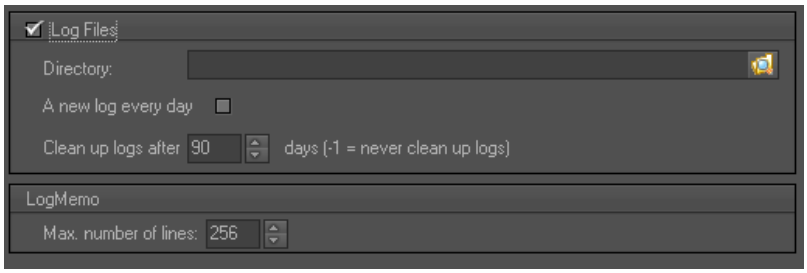
The System settings are divided into the following subcategories:

- MAD Options
- Oracle Connection
- E-Mail Options
- Timers
- Tasks
- Automatic Tape ID Sync

For each subcategory a tab is provided.

3.2.2. MAD Options Tab

The MAD Options tab allows you to configure the log file management.



Configuring the Log File Management

To be able to configure the log file management, you have to select the **Log Files** check box.

In the **Directory** field you can enter the path of the log storage directory or you can browse for it by clicking . By default, the logs will be saved in the directory: C:\EVSLogs\MAD\[Application name].

If the **A New Log Every Day** check box is selected, a new log file is started every day. By default, this option is not selected.

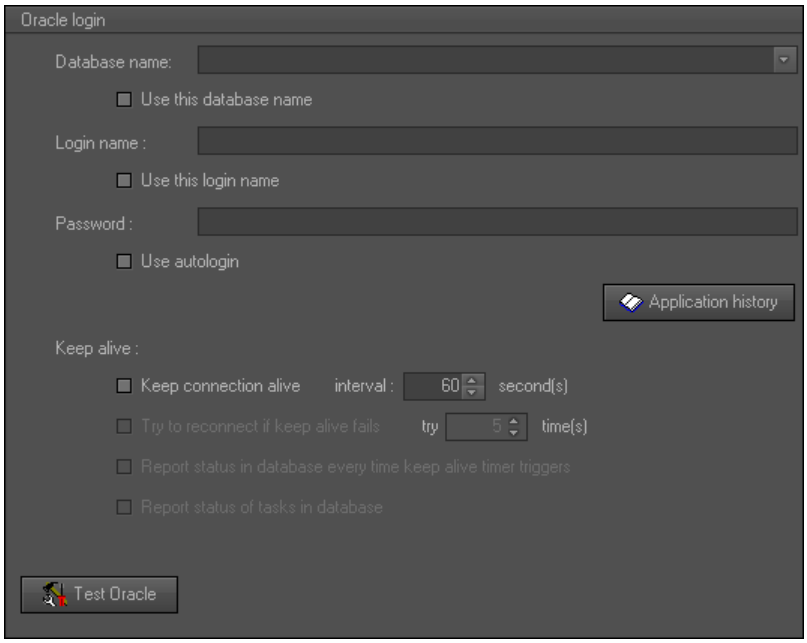
You can also specify a time interval (in days) after which the logs should be removed from the log storage directory. If you enter '-1', the logs are never removed from the storage directory. By default, the logs are cleaned up after 90 days.

Configuring the LogMemo Size

In the LogMemo group box you can specify the maximum number of lines retained by the Log pane. By default, the Log pane displays 256 lines.

3.2.3. Oracle Connection Tab

The Oracle Connection tab allows you to configure the connection with the Oracle database.



Entering the Database Name

In this field you have to enter the name of the database the application has to connect to.

If the **Use This Database Name** check box is selected, the name of the database will automatically appear in the Oracle login dialog box at start-up.

Entering the Login Name

In this field you have to enter a login name. If the **Use This Login Name** check box is selected, the login name will automatically appear in the Oracle login dialog box at start-up.

Entering a Password

In this field you have to enter a password. If the **Use Auto Login** check box is selected, the application automatically logs into the selected database at start-up. The Oracle login dialog box does not appear.

Checking Application History

By clicking the **Application History** button, you can open a chronological list of all software versions of the application. To get more details about each version (creation date, name of programmer, status, additional remarks), you have to click **+** next to the version number.

Activating Keep Alive

If the option **Keep Connection Alive** is selected, a message is sent to the database at regular time intervals to avoid idle connections from being closed by the firewall. These intervals can be set by you.

If the option **Try to Reconnect if Keep Alive Fails** is selected, the application will try a number of times to reconnect with the database.

If the option **Report Status in Database Everytime Keep Alive Timer Triggers** is selected, the status of the connection is reported in the database each time the Keep Alive Timer sends a trigger to send a Keep Connection Alive message.

If the option **Report Status of Tasks** is selected, the status of the tasks (ok or not ok) is reported to the database.

Testing the Oracle Connection

The **Test Oracle** button allows you to check the validity of the database name, login and username you entered.

If these data are valid, then the following message appears next to the **Test Oracle** button: 'OK'.

If the login name or password is invalid, then a message box appears with the following message: 'ORA-01017: invalid username/password; logon denied'.

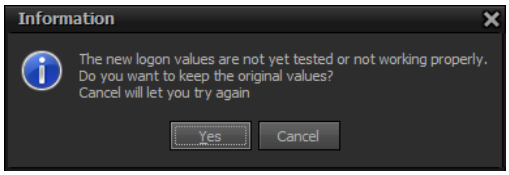
If the database name is invalid, then a message box appears with the following message: 'ORA-12154:TNS: could not resolve the connect identifier specified'.

If you omit the password, then a message box appears with the following message: 'ORA-01005: null password given; logon denied'.

If you do not enter a database name, login and username, then a message box appears with the following message: 'ORA-12560: TNS: protocol adapter error'.

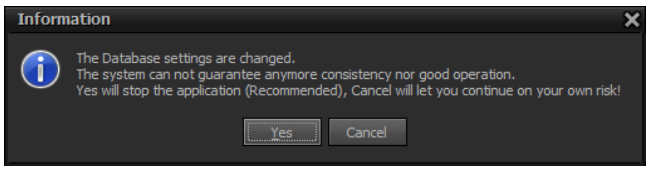
You can also check the software version of the application by clicking the **Test Oracle** button. If the software version is up-to-date, then the following message appears: 'Current– The Current Version'. If the software version is outdated, then the following message appears: 'Unknown Version Application! Please contact the EDP department.'

If you close the Settings window without testing the validity of the database name, login and username you just entered, then a message box appears.


Information
The new logon values are not yet tested or not working properly.
Do you want to keep the original values?
Cancel will let you try again
Yes
Cancel

If you click **Yes**, then the Settings window is closed and the original values are restored. If you click **Cancel**, then the Settings window does not close and you can test the values by clicking the **Test Oracle** button.

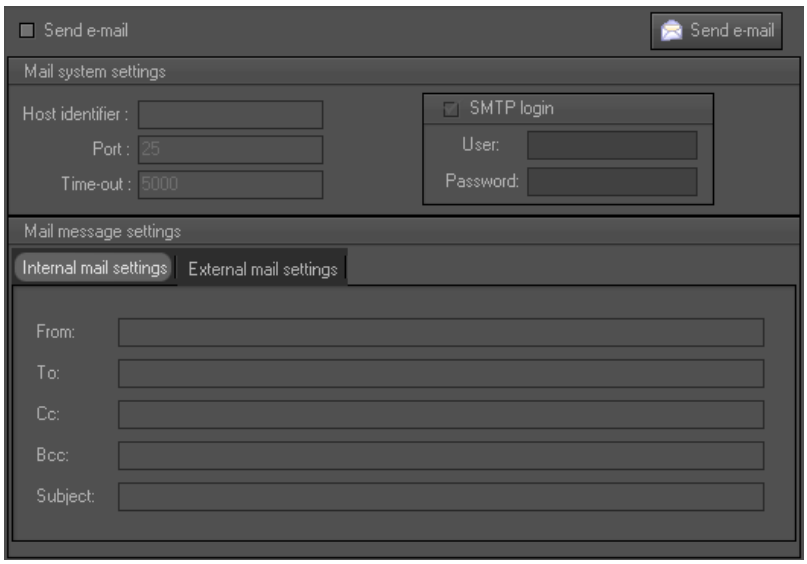
If you change the current database settings, test the connection and then close the Settings window, a message box will appear.


Information
The Database settings are changed.
The system can not guarantee anymore consistency nor good operation.
Yes will stop the application (Recommended), Cancel will let you continue on your own risk!
Yes
Cancel

If you click **Yes**, the application is stopped and closed. A manual restart will be required. Click **Cancel** to continue.

3.2.4. E-Mail Options Tab

In case the application is capable of sending e-mail messages, the E-Mail Options tab will allow you to configure an e-mail account, enter the e-mail address of the default sender and recipients, and enter a default e-mail subject. If the application is not capable of sending e-mail messages, the settings in this tab cannot be used.



To be able to configure the e-mail account, you have to select the **Send E-Mail** check box. The fields in the Mail System Settings and Mail Message Settings group box become available.

Configuring an E-Mail Account

In the Mail System Settings group box you have to enter the IP address and port number of the SMTP server and specify a timeout. In the SMTP Login group box you can enter a user name and password.

Configuring a Default E-Mail Message

The Mail Message Settings group box contains two tabs: Internal Mail Settings and External Mail Settings.

The Internal Mail Settings tab can be used to configure a default e-mail message that will be sent to the EVS developers and the customer when an error occurs.

The External Mail Settings tab can be used to configure a default e-mail message that will be sent to the customer to notify him about an error. In each tab you have to enter the sender's email address, the email address of the various recipients and a subject. It should be noted that this tab is not always used.

When you insert multiple e-mail addresses in any of the header fields, make sure you separate them by a comma.

To test the settings and manually send an e-mail message, click the **Send Mail** button.

For the new settings to take effect, close and restart the application. Check the TOM.ini file in the installation folder of the application for the e-mail addresses and subject entered here.

```
[General]
TemporaryFiles.Text=edtTemporaryFilesDir
EmailWanted.Checked=0
Port.Text=25
HostID.Text=
TimeOut.Text=5000
SMTPLogin.Checked=1
MailUser.Text=
MailPasswd.Text=y1cWaD8bS1hdK17uHq8knw==
MailPasswdUnicode.Text=79CJGqDro/FCD6AsFhtZkw==
MailFrom.Text=
MailTo.Text=
MailCc.Text=
MailBcc.Text=
MailSubject.Text=
ExternMailFrom.Text=
ExternMailTo.Text=
ExternMailCc.Text=
ExternMailBcc.Text=
ExternMailSubject.Text=
cbSaveScreenDumpUnHandledErrors.Checked=1
cbSaveUnforcedErrors.Checked=1
cbSaveScreenDumphandledErrors.Checked=1
cbAutomaticLogin.Checked=0
cbUseknownDatabase.Checked=0
cbUseThisLogin.Checked=0
chkKeepConnectionAlive.Checked=0
chkTryToReconnect.Checked=0
```

3.2.5. Timers Tab

The Timers tab allows you to set time intervals for some automated tasks.

Configuring Auto-Start

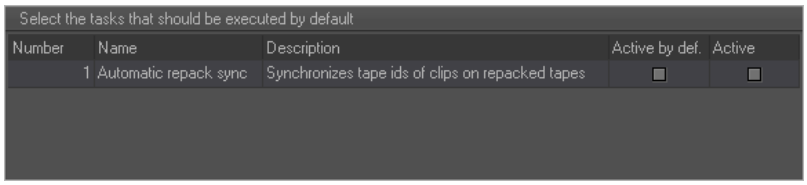
In the Auto Start group box you can specify the time interval after which the application automatically starts performing its tasks. By default, this is set to 10 seconds.

Setting a Time Interval Between Tasks

In the Perform Tasks group box you can specify the length of the time interval (in seconds) between two subsequent tasks. By default, this is set to 30 seconds.

3.2.6. Tasks Tab

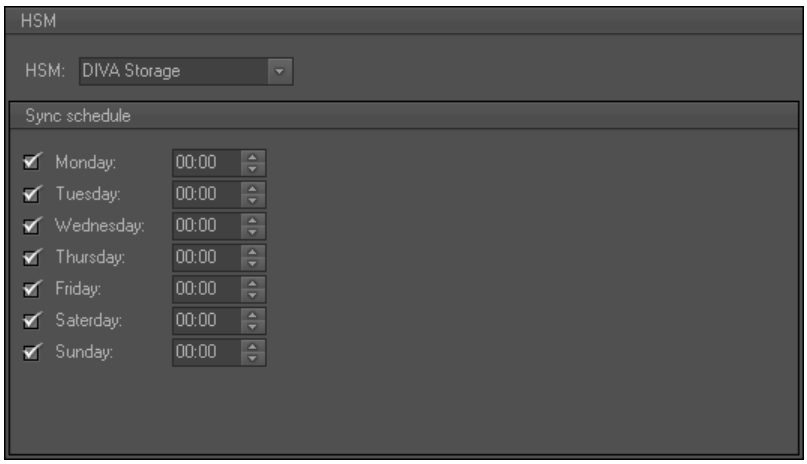
The Tasks tab gives an overview of the active tasks.



In the **Active by Default** column you can activate the tasks that must be performed by default at start-up by selecting the corresponding check box. The **Active** column displays the tasks that are currently selected in the main window.

3.2.7. Automatic Tape ID Sync Tab

The Automatic Tape ID Sync tab displays on which days of the week and at what time Deep Archive Sync Controller will start performing its Automatic Repack Sync task.



In the **HSM** field you have to select the hierarchical storage management system Deep Archive Sync Controller has to communicate with. Normally, the list will contain only one HSM system. In cases where there are multiple instances of the same HSM system, you will have to select the right instance.

The Sync Schedule area displays on which days of the week and at what time Deep Archive Sync Controller will start performing its Automatic Repack Sync task. The start times appear as soon as you select the HSM in the **HSM** field above.

If the check box for a particular day is not selected, the task will not be performed. The Automatic Repack Sync task is set to start after the automatic repack operation performed by the HSM has finished.

The 'Sync Schedule' has to be configured in the HSM tab of the IP2Archive Configurator application. See the Configurator user manual for more information. It cannot be entered or modified here.

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